

Minutes of ODF'10 Yokohama

1. Session record

- Twenty-two Post-Deadline papers were accepted and eighteen papers among them were presented as poster papers.
- Due to eruption of volcano in Iceland on 14 April 2010, some presenters could not come to the conference. Accordingly, some presentations were not presented, presented only slides or presented slides with audio voice.

1-1. Following eighteen Post-Deadline papers were presented.

-20PDa-01: New calculation formulae for chromatic aberration coefficients of co-axial optical systems

K. Araki (Canon Inc. / Japan)

-20PDa-02: Design of Optical Waveguides Using Hydrogenated Amorphous Silicon Germanium and Hydrogenated Amorphous Silicon Nitride Films

W. W. H. Montero, I. E. Z. Huerta, C. Z. Islas, A. T. Jacome, and A. I. Toxqui (Instituto Nacional de Astrofísica Óptica y Electrónica / Mexico)

-20PDa-03: Design of Artificial Apposition Compound Eye with Cylindrical Micro-Doublets

A. Garza-Rivera, and F. J. Renero-Carrillo (Instituto Nacional de Astrofísica, Óptica y Electrónica / Mexico)

-20PDa-04: Polarization Gratings Formed on Write-Once Type Polarization-Sensitive Medium

D. Barada, H. Kurosawa, S. Kawata, T. Yatagai (Utsunomiya Univ. / Japan), and T. Fukuda (AIST / Japan)

-20PDa-05: Full Color Rewritable Holography Display Material and Device

M. Yamamoto, P. Wang, T. Gu, W. Lin, D. Flores, W. Y. Hsieh (1), M. Kathaperumal, B. Rachwal, J. Tillema, Z. Jiang, O. Siddiqui (Nitto Denko Technical Corp. / USA), A. Bablumyan, A. Ordyan, P. A. Blanche, R. Voorakaranam, R. A. Norwood, and N. Peyghambarian (Univ. of Arizona / USA)

-20PDa-09: Fabrication of Volume Holographic Imaging Element with Background Noise Reduction Filter for Eye-Gaze Detection under White light Illumination

Y. Takizawa, Y. Kitagawa, T. Matsumoto (Hyogo Prefectural Inst. of Technology / Japan), A. Mizuno (Kyowa Electronics Co., Ltd / Japan), T. Sato,

and O. Matoba (Kobe Univ. / Japan)

-20PDa-10: Phase Detection using Hue of Color Fringes

Hideo Sakuma (Tokyo Metropolitan Univ. / Japan)

-20PDa-11: Accurate determination of optical properties using spatially resolved measurement and laser rangefinder

T. Yamashita and M. Niwayama (Shizuoka Univ. Japan)

-20PDa-12: Phase Amplification in Fringe Projection Topography

H. Miyasawa, T. Kiire, T. Yatagai (Utsunomiya Univ. / Japan)

-20PDp-01: Optimal Focal Position and Vector Diffraction Theory for Micro Holographic Data Storage System

C. K. Min, D. H. Kim, N. C. Park, K. S. Park, H. S. Yang, and Y. P. Park (Yonsei Univ. / Korea)

-20PDp-03: Hybrid Image Stabilizer System

S. Sato, S. Imada, and G. Noto (Canon Inc. / Japan)

-20PDp-04: Fraction Estimation of Small, Dense LDL Directly from Autocorrelation Function of Dynamic Light Scattering

S. Trirongjitmoah, T. Sakurai, H. Chiba, K. Shimizu (Hokkaido Univ. / Japan), and K. Inaga (Denka Seiken Co., Ltd. / Japan)

-20PDp-05: Enhancement of femtosecond laser-induced phenomena with spatially and temporally divided two pulses

A. Takita, M. Isaka, and Y. Hayasaki (Utsunomiya Univ. / Japan)

-20PDp-06: Analysis of Biological Cells using Phase Measurement System Based on Closed Loop Feed-back Control

E. Watanabe, M. Toshima, K. Kodate (Japan Women's Univ. / Japan), and C. Fujikawa (Tokai Univ. / Japan)

-20PDp-07: A Multi-channel Surface Plasmon Resonance Imaging Ellipsometry System

C. Y. Han, I. T. Chen (National United Univ. / Taiwan), and H. T. Wu (Chung Shan Medical Univ. / Taiwan)

-20PDp-08: Study on Inter-page crosstalk for the Channel Capacity and Bit Error Rate of a Holographic Memory System

S. H. Lin, C. H. Ho, J. H. Lin, and K. Y. Hsu (National Chiao Tung Univ. / Taiwan)

-20PDp-09: High-accuracy face recognition system by ultrahigh-speed optical correlation using holographic disc

M. Shinkaku, A. Kodate (Tsuda College / Japan), A. Naito, E. Watanabe, and A. Kodate (Japan Women's Univ. / Japan)

-20PDp-10: Manufacturing of 1 m off-axis parabolic mirror and its application

H. S. Yang, S. M. Hong, H. Kihm, H. Y. Lee, Y. W. Lee (Korea Research Inst. of Standards and Science / Korea), J. U. Lee (Cheongju Univ. / Korea)

1-2. Posters of following two Post-Deadline papers were posted but were regarded as cancelled since authors did not appear at the poster in the session time or register their attendance either.

-20PDa-06: Omni-directional Tabletop Display Enables to Work Collaborative Tasks on Round Table

*T. Honda, K. Sakamoto (Konan Univ. / Japan), S. Nomura (Nagaoka Univ. of Technology / Japan),
T. Hirotsu, K. Shiwa, and M. Hirakawa (Shimane Univ. / Japan)*

-20PDa-07: Light-weight Image Shift Optical Device for Displaying Monocular Stereoscopic Images

K. Ohmori and K. Sakamoto (Konan Univ. / Japan)

1-3. Following Post-Deadline papers were cancelled due to authors' absence without any prior notification to the Committee.

-20PDa-08: Fresnel Structure on Arbitrary Curved Surface for Angular Compensating of Solar Tracking Device

C. J. Ou, J. R. Bai, and J. S. Chen (Hsiuping Inst. of Technology / Taiwan)

-20PDp-02: View Control Grating Film Enables to Display Stereoscopic 3D Image without Special Glasses

Y. Yatabe and K. Sakamoto (Konan Univ. / Japan)

1-4. Following oral paper was regarded as cancelled due to authors' absence without any prior notification to the Committee.

-20S3-02: WDM C-Band-Shift-Free Optical Phase Conjugator Using Sagnac Interferometer Based on Highly-Nonlinear Photonic Crystal Fiber

P. Rangsee and P. Kaewplung (Chulalongkorn Univ. / Thailand)

1-5. Following oral papers were cancelled due to authors' own circumstances with prior notification to the Committee.

-19S1-14: Design Optimization of Photonic Crystal Organic Solar Cells using the FDTD method in Combination with Particle Swarm Optimization

M. Kawano and J. Pond (Lumerical Solutions Inc. / Canada)

-21SS-01(Invited) PhlatLight: Big-Chip Photonic Lattice LEDs

Y. S. Choi and M. Lim (Luminus Devices, Inc. / USA)

1-6. Following oral papers were not presented due to the unexpected influence of volcano eruption.

-20S3-04(Invited): VLSI Photonics: A Platform for Nanophotonic Integration

E. H. Lee (Inha Univ. / South Korea)

-21S4-05: Optical image stabilization with a liquid lens

E. Simon, B. Berge, H. Gaton, O. Jacques-Sermet, F. Laune, J. Legrand, M. Maillard, D. Moine, and N. Verplanck (Varioptic / France)

1-7. The author of following oral paper could not come to the Conference due to the unexpected influence of volcano eruption. Nevertheless, the paper was presented by slides with audio voice.

-19S2-01 (Invited): Wafer-scale fabricated imaging systems

A. Bräuer, F. Wippermann, and A. Brückner (Fraunhofer Inst. for Applied Optics and Precision Engineering / Germany)

1-8. Following oral paper was presented by proxy due to the influence of volcano eruption.

-20S3-01(Invited): High-Performance Fiber-Optic Gyroscope Technology

H. C. Lefevre (iXCore and iXSea / France)

1-9. Following eighteen poster papers were not presented but regarded as cancelled due to authors' absence without any prior notification to the Committee.

-20PSa-01: Improved optical realization of the complex Gabor-wavelet filter

H. E. Hwang, G. H. Yang, M. C. Chien, and S. C. Chen (Chung Chou Inst. of Technology / Taiwan)

-20PSa-07: Simulation method for measuring the displacement and angle on the test plane with a DVD pickup head

W. S. Sun (National Central Univ. / Taiwan)

-20PSa-10: Parallel simulated annealing optimize the design of diffractive optics element

W. Rong, H. Neng (Chinese Academy of Sciences / China), and D. Yaping (Chinese Academy of Engineering Physics / China)

-20PSa-19: Near-field Talbot Patterns in Nanometer Permalloy Gratings

C. Y. Kuo, H. M. Lee, C. T. Chao, J. C. Wu (National Changhua Univ. of Education / Taiwan), and T. H. Wu (National Yunlin Univ. of Science and Technology / Taiwan)

-20PSa-22: Lenticular Lens Design for Small-Size LCD Panel in Applications of Autostereoscopic Display

K. X. Yang (Chung Yuan Christian Univ. / Taiwan), Y. P. Huang, Y. Y. Kao, and P. C. P. Chao (National Chiao Tung Univ. / Taiwan)

-20PSa-23: Liquid-Crystal Lenticular Lens Design for Small-Size LCD Panel in Applications of 2D/3D Switchable Display

K. X. Yang (Chung Yuan Christian Univ. / Taiwan), Y. P. Huang, Y. Y. Kao, and P. C. P. Chao (National Chiao Tung Univ. / Taiwan)

-20PSa-42: Cut-off "Temperature of Operation" of Directly Digitally modulated Zero-Biased Uncooled Semiconductor Laser Diodes

M. S. A. Rahman, M. R. Hassan (Univ. kebangsaan Malaysia / Malaysia), and M. D. Zan (Shibaura Inst. of Tecnology / Japan)

-20PSa-50: Optical Addressing in Polymer-Dispersed Cholesteric Liquid Crystals

A. Y. G. Fuh, J. H. Li, and K. T. Cheng (National Cheng Kung Univ. / Taiwan)

-20PSa-59: Concatenation of Chirped Fiber Bragg Gratings for large stretching of femtosecond pulses for PW class lasers

H. Coïc, N. Péraud (CEA/CESTA / France), and L. Quétel (IDIL Fibres Optiques / France)

-20PSa-64: Optical Properties Of Photonic Crystals Based On Two-dimensional Holographic Polymer-Dispersed Liquid Crystals

M. S. Li, S. T. Wu, S. Y. Huang, H. C. Lin, and A. Y. G. Fuh (National Cheng Kung Univ. / Taiwan)

-20PSa-66: High-Stable All-Fiber Dispersion Compensation-Free Ultrashort Ytterbium Laser

P. Zhang, W. Fan, X. Wang, and Z. Lin (Chinese Academy of Sciences / China)

-20PSp-03: Holographic Projection Photolithography

S. N. Koreshev (St. Petersburg State Univ. of ITMO / Russia), and V. P. Ratushnyi (HoloGrate / Russia)

-20PSp-11: Challenges in Digital Holography in Microlens Characterization

Y. Hao, A. Asundi (Nanyang Technological Univ. / Singapore), and T. Ailing (Xian Technological Univ. / China)

-20PSp-23: Sequence formation of light pulses for information transmission at speeds of over 30 Tb/s

A. A. Drozdov, A. N. Tsyarkin, and S. A. Kozlov (Saint-Petersburg State Univ. of

ITMO / Russia)

- 20PSP-31: Influence of THz broadband pulse radiation on some biotissues**
V. G. Bespalov, A. A. Gorodetsky, Y. V. Grachev, S. A. Kozlov, and O. A. Smolyanskaya (Saint-Petersburg State Univ. of ITMO / Russia)
- 20PSP-47: Study of photorefractive gain spectra due to two beam coupling of the coupled unidirectional photorefractive ring resonators**
M. K. Maurya, T. K. Yadav, and R. A. Yadav (Banaras Hindu Univ. / India)
- 20PSP-62: Radiation Photonics: A Case of Metal-Nanoparticle Composites**
O. A. Plaksin (A. I. Leypunsky Inst. of Physics and Power Engineering, and Obninsk State Univ. for Nuclear Power Engineering / Russia), Y. Takeda, K. Kono, H. Amekura, and N. Kishimoto (National Inst. for Materials Science / Japan)
- 20PSP-63: Radiative Properties of Butt-Ring Gold Nanoantennas Array**
H. M. Lee and J. C. Wu (National Changhua Univ. of Education / Taiwan)
- 1-10. Following fourteen poster papers were not presented due to the influence of volcano eruption.
- 20PSa-02: Investigation of Temporal and Angular Dispersions in Conical Mirrors Systems for Ultra-short Pulses**
H. M. Al-Juboori, J. Baehr (DESY / Germany)
- 20PSa-34: Extend distance of Local Area Network Ethernet LAN by using a Free Space Laser Link**
Ameen Hashim Farhan (Ministry of Science and Technology / Iraq)
- 20PSa-40: Curvature Losses Of Slab Waveguides Using Analytical and FEM Analysis**
J. Torres, A. Baptista, and V. M. Machado (Technical Univ. of Lisbon / Portugal)
- 20PSa-46: High Efficient Photonic Crystal Power Splitter for 1.3 Micrometer Wavelength**
H. Kaatuzian and S. Foghani (Amirkabir Univ. of Tech. / Iran)
- 20PSa-58: Inner-Base Optoelectronic System for the Control of Linear Displacements**
K. G. Arakantsev, I. A. Konyakhin, and A. N. Timofeev (Univ. of Information Technologies / Russia)
- 20PSP-27: Tetrahedral Reflector Elements for Three-Axis Angular Autocollimator**
I. A. Konyakhin (Saint-Petersburg State Univ. of ITMO / Russia)
- 20PSP-28: Optoelectronic system for roll angles measurements on the base of the anamorphosis element**
I. A. Konyakhin, A. D. Merson, and A. N. Timofeev (Saint-Petersburg State Univ. of ITMO / Russia)

- 20PSP-32: **Holographic processor for fuzzy logic: on the approximation of modulation transfer function**
A. M. Alekseev, A. V. Pavlov, and V. N. Vasilev (Saint-Petersburg State Univ. of ITMO / Russia)
 - 20PSP-67: **The invariant optical schemes in control optical-electronic systems of the objects spatial position**
A. G. Anisimov and A. A. Gorbachyov (Saint-Petersburg State Univ. of ITMO / Russia)
 - 20PSP-68: **Singularity of the Light Sources Radiation Parameters Changing Effect upon Illuminated Object Colors Representation by Optical Detector**
A. N. Chertov, E. V. Gorbunova, and V. V. Korotaev (Saint-Petersburg State Univ. of ITMO / Russia)
 - 20PSP-69: **Alignment Control Optical-Electronic System**
A. G. Anisimov, V. V. Korotaev, and A. V. Krasnyashchikh (Saint-Petersburg State Univ. of ITMO / Russia)
 - 20PSP-70: **Active / passive combination of IR and THz surveillance**
V. V. Korotaev (Saint-Petersburg State Univ. of ITMO / Russia), G. S. Melnikov, V. M. Samkov, and Y. I. Soldatov (Federal State Unitary Enterprise "NPK GOI im. SI Vavilov" / Russia)
 - 20PSP-71: **Design of multimatrix optic-electronic modules for distributed measuring systems**
V. V. Korotaev and S. N. Yaryshev (Saint-Petersburg State Univ. of ITMO / Russia)
 - 20PSP-74: **Holographic implementation of a linear predictor for stochastic processes: factors to be considered while fabricating the optical device**
Z. S. Bekyasheva, A. V. Pavlov, and V. N. Vasilev (Saint-Petersburg State Univ. of ITMO / Russia)
- 1-11. Posters of following seven poster papers were posted but were regarded as cancelled since authors did not appear at the poster or register their attendance either.
- 20PSP-09: **Simulating the illuminance and the Efficiency of Daylight/LED Hybrid Illuminating System used in Interior Lighting Design**
B. H. Tsuei and W. S. Sun (National Central Univ. / Taiwan)
 - 20PSP-18: **Hand-held Full-colored 3D Skin Imaging System by RGB LED in Optical Coherence Tomography**
C. W. Yang, X. C. Chen, and Y. S. Chang (Ming-Hsin Univ. of Science and Technology / Taiwan)

- 20Psp-19: The Micro-interaction between Red Blood Cells and the Three Stages in Coagulation by Optical Tweezers**
B. W. Yang, Z. Li, Y. A. Lin, J. L. Wu, Y. H. Mu, K. T. Huang (Ming-Hsin Univ. of Science and Technology / Taiwan)
- 20Psp-20: The Effects of Collagen and Ascorbic Acid on Aging Skin by Fluorescence and Reflection Spectroscopy**
B. W. Yang, H. H. Liao, Y. S. Chang, X. C. Chen (Ming-Hsin Univ. of Science and Technology / Taiwan)
- 20Psp-30: Plane Inclination Detection Based on the Patterns Variation for the Collinear Holography Data Storage Systems**
Z. H. Lin and S. Cheng (National Chiao-Tung Univ. / Taiwan)
- 20Psp-38: Encrypting optical image using arbitrary two phase-step digital holography**
W. T. Hsieh, M. K. Kuo (National Defense Univ. / Taiwan), and C. C. Chang (Ming Dao Univ. / Taiwan)
- 20Psp-83: Near-infrared Supercontinuum Generation in Conventional Single Mode Fiber Used in Optical Sensor**
C. H. Fan, C. H. Huang, H. Y. Lin, and H. C. Chui (National Cheng Kung Univ. / Taiwan)